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The Royal Society of London

PHILOSOPHICAL
TRANSACTIONS

Volume 37
1731-1732

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NEW YORK
1963

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*The only official reprint
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PHILOSOPHICAL TRANSACTIONS.

GIVING SOME
ACCOUNT
OF THE
Present Undertakings, Studies, and Labours
OF THE
INGENIOUS,
IN MANY
Considerable Parts of the WORLD.

VOL. XXXVII. For the Years 1731, 1732.

LONDON:

Printed for W. INNYS and R. MANBY, Printers to the
Royal Society, at the West End of St. Paul's. 1733.

To His GRACE

C H A R L E S

Duke of RICHMOND and LENOX, &c.

My LORD,

I BEG Leave to present to YOUR GRACE this Volume of PHILOSOPHICAL TRANSACTIONS, being a Collection of several Tracts lately read before the ROYAL SOCIETY, whose Meetings You have so frequently honour'd with Your Presence. Arts and Sciences always flourish most under the Protection of Princes and Great Men, who, themselves engaging in the Search after Learning, do by their Examples excite an Emulation among those, whose Busines and Profession call them more immediately to the Improvement of the several Branches thereof. I am persuaded these Papers will meet with a fa-

D E D I C A T I O N.

a favourable Reception from YOUR GRACE; who have not only shewn Your Inclination to encourage Knowledge in General, by becoming one of the Members of this SOCIETY, but have likewise done a particular Honour to the Faculty of Physick, by condescending to join to the Noble Titles of Your High Rank, those of DOCTOR in that Profession, and of FELLOW of the College of Physicians, LONDON.

I therefore gladly take this Opportunity of acknowledging that I am,

With the greatest Submission,

My L O R D,

Your G R A C E ' S ,

Most Obedient, and

Most Humble Servant,

CROMWELL MORTIMER, *M. D.*
R. S. Secr.

Numb. 417. Beginning
VOL. XXXVII.

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For the Months of *January* and *February*, 1731.

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- II. *A Description of the Water-Works at London-Bridge. By H. Beighton, F. R. S.*
- III. *Epistola continens Historiam CALCULI in Vesica sponte fracti, & per Urethram feliciter excreti; ad Illustrem Generosissimumque Virum D. FRED. DE THOM, Serenissimo DUCI BRUNSVICENSI ET LUNEBURGENSI a Consilio, Oratorem ejus apud Potentissimum MAGNÆ BRITANNIÆ REGEM, nec non R. S. S. a LAURENTIO HEISTERO, M.D. Prof. Botan. in Acad. Julia Helmstadii. & R. S. S. conscripta.*
- IV. *A Letter from the Reverend William Derham, D. D. Canon of Windsor, and F. R. S.*
to

- to Sir Hans Sloane, Bar^t. Praes. Coll. Med. & R. S. concerning the Frost in January, 173^o.
- V. A Letter to Cromwell Mortimer, M. D. Secr. R. S. containing several Experiments concerning Electricity ; by Mr. Stephen Gray.
- VI. Curvarum Hyperbolicarum, æquationibus trium nominum utcunque definitarum, Quadratura generalis dupli Theoremate exhibita à D^o. Samuele Klingenstierna, Profess. Digniss. Math. in Acad. Upsal, & R. S. S. Communicante D^o. Jacobo Stirling, ejusdem etiam Soc. Doctiss. S.
- VII. Casus rarissimus Plicæ Polonicae enormis à D. Abrahamo Vatero, M. D. Prof. Anatom. Wittemberg, & R. S. S. per D. Conradum Sprengell, Equitem, M. D. R. S. S. & Coll. Med. Lond. Licent. communicatus.
- VIII. An Extract of a Letter from Sir Conrad Sprengell, M. D. R. S. S. & Coll. Med. Lond. Licens. to Dr. Mortimer ; wherein he inclosed the foregoing Account of the Plica Polonica ; together with an Article from the Breslau Sammlung von Natur- und Medicin, &c. Geschichten, upon the same Subject, translated from the High-Dutch by Dr. Mortimer, R. S. Secr.
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- III. *A new and exact Table collected from several Observations taken from the Year 1721 to 1729, in nine Voyages to Hudson's Bay in North-America, by Capt. C. Middleton; shewing the Variation of the Compass according to the Latitudes and Longitudes under-mentioned, accounting the Longitude from the Meridian of London. Communicated by Mr. Benj. Robins, F. R. S.*
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- V. *A Letter from Mr. Martin Triewald, Director of Mechanicks to the King of Sweden, and F.R.SS. of England and Sweden, to Sir Hans Sloane, Bar^t. Pres. R. S. relating to an extraordinary Instance of the almost instantaneous freezing of Water ; and giving an Account of Tulips, and such bulbous Plants, flowering much sooner, when their Bulbs are placed upon Bottles filled with Water, as in TAB. II. than when planted in the Ground.*
- VI. *An Account of some Experiments, relating to the Flowering of Tulips, Narcissus's, &c. in Winter, by placing their Bulbs upon Glasses of Water, made by Mons. Triewald, Director of Mechanicks at Stockholm, and F. R. SS. of England and Sweden, and read before the Royal Society May the 7th, 1730, as they were tried the next Season by Philip Miller, F. R. S. Gardiner to the worshipful Company of Apothecaries, at their Botanick Garden in Chelsea.*
- VII. *A Letter from T. Madden, M. D. of Dublin, to Cromwell Mortimer, M. D. R. S. Secr. giving an Account of two Women being poisoned by the SIMPLE DISTILLED WATER OF LAUREL-LEAVES, and of several Experiments upon Dogs ; by which it appears that this LAUREL-WATER is one of the most DANGEROUS POISONS hitherto known.*

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- II. *A Letter to Dr. Jurin, F. R. S. giving an Account of the Condition of the Town of Hastings, after it had been visited by the Small Pox.*
- III. *A Catalogue of Eclipses of the four Satellites of Jupiter, for the Year 1732. By James Hodgson, F.R.S. and Master of the Royal Mathematical School at Christ's Hospital, London.*
- IV. *A Letter to the President of the Royal Society, from Frank Nicholls, M. D. F. R. S. giving an Account of a Polypus, resembling a Branch of the Pulmonary Vein, coughed up by an asthmatic Person.*

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- VI. De Ingenti Sanguinis Vomitu perquam gelidissimis brumali tempore Potionibus curato, Observatio ad Regiam Scientiarum Londinensem Societatem à Petro Antonio Michelotto M. D. R. S. S. transmissa.

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- III. *Some Experiments concerning the poisonous Quality of the Simple Water distilled from the LAURO-CERASUS, or common Laurel, made upon Dogs, at Toppingo-Hall in Essex, August the 24th 1731. and others made before the ROYAL SOCIETY in their Repository. By Cromwell Mortimer, M.D. R. S. Secret.*

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- IV. *A Continuation of an Account of Mr. Mark Catesby's Essay towards a Natural History of Carolina and the Bahama Islands, with some Extracts out of the fourth Set, by Dr. Mortimer, R. S. Secret.*
- V. *Observatio Eclipsis Solis die 15 Julij 1730. habita Pekini in publico ejus Regiae Observatorio à P P. Ignatio Kegler, & Andrea Pereyra Societatis J E S U, communicata per Jacobum de Castro Sarmento, M. D. Coll. Med. Lond. Lic. & R. S. S.*
- VI. *Part of a Letter from Tho. Short, M. D. to Sir Hans Sloane, Bart. Pr. R. S. concerning an extraordinary Impostumation of the Liver.*

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- II. *An Account of the Contrayerva, by Mr. William Houftoun, Surgeon in the Service of the Honourable South-Sea Company.*
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VI. *A Botanical Invitation to forward an History of the Plants of Swisserland; by Dr. John Jacob Scheuchzer, M. D. F. R. S. sent to Sir Hans Sloane, Bar^t. Pr. R. S. to be communicated to the Royal Society. Translated by Mr. Zollman, F. R. S.*

VII. *An Account of what appeared most remarkable on opening the Body of Ann Edwards, who died January 5th, 17²⁹₃₀, having a large Umbilical Rupture. Communicated to the Society by John Ranby, Esq; Surgeon to his Majesty's Household, and F. R. S.*

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- IV. *Epistola Domini Huxham, M. D. ad Jacobum Jurin, M. D. R. S. & Coll. Med. Soc. de Morbo Colico singulari.*

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- V. *De Figuris quas Fluida rotata induere posse sunt, Problemata duo ; cum conjectura de Stellulis quæ aliquando prodeunt vel deficiunt ; & de Annulo Saturni.* Authore Petro Ludovico De Maupertuis, Regiæ Societatis Londinensis, & Academiæ Scientiarum Parisiensis Socio.
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- VII. *An Extract of a Letter from Mr. Hopkins to Mr. John Senex, F. R. S. concerning an extraordinary large Horn of the Stag Kind, taken out of the Sea on the Coast of Lancashire.*
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VI. *An Abstract of a Letter, written in Dutch, to the Illustrious Royal Society of London, by Arnold Marcel, (Nephew to the late Mr. Anthony van Leeuwenhoek, F. R. S.) Communicated by the Rev^d. Dr. J. T. Desaguliers, F. R. S.*

L O N D O N :

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- IV. *A Catalogue of Eclipses of Jupiter's Satellites for the Year 1733.* By James Hodgson, F. R. S. Master of the Royal Mathematical School at Christ's Hospital, London.
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M DCC XXXII.

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- II. EPHEMERIDES METEOROLOGICÆ, Barometricæ, Thermometricæ, Epidemicæ, Magneticæ, ULTRAJECTINÆ, conscripta à Petro Van Muschenbroek, L. A. M. Med. & Phil. D. Phil. & Mathej. Profess. in Acad. Ultraj. Anno 1729.

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- III. *A Letter from Mr. Jac. Theod. Klein, Secret. Dan. & F. R. S. to Sir Hans Sloane Bart. Pr. R. S. &c. serving to accompany the Pictures of a very extraordinary fossile Skull of an Ox with the Cores of the Horns; of the Plica Polonica mentioned in Transact. N° 417; and of a very large Tumor of the Eye. Translated from the Latin by T. S. M. D.*

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- VI. *Some Corrections and Amendments by J. P.
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- VII. *A Continuation of an Account of an Essay towards a Natural History of Carolina and the Bahama Islands, by Mark Catesby, F. R. S. with some Extracts out of the fifth Set. By Dr. Mortimer, R. S. Secret.*